"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAVVIN, V.A.; EN'YAKOVA, P.A.

Reactions of the lungs towards various kinds of coal dust. Bor'ba s sil. 1:291-300 '53. (MLRA 7:10)

1. Donetskiy institut fisiologii truda.
(LUNGS--DUST DISEASES) (COAL) (MINE DUSTS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAVVIN, V.A.

Histogenesis of a silicotic nodule in experimental silicosis. Arkh. pat. 17 no.1:55-60 Ja-Mr '55. (MLRA 8:10)

1. Iz kafedry gistolotii Stalinskogo meditsinskogo instituta.
(SILICOSIS, experimental,
histogenesis of silicotic nodules)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAVVIN, V.A.

422

237. RAVVIN V. A. *Professional anthracosis (Russian text)* Gigiena 1957, 3 (32—36) Tables 1 Illus 2

Silicosis is not the only form of pneumoconiosis giving rise to fibrosis of the lungs. In order to prove that the workmen of the coal-mines may suffer from anthracosis as an independent form of fibrosis, the author gives data of X-ray and histological examinations of affected tissue and results of chemical analyses of ashes of lungs. In his opinion the main aetiologic factor for this fibrosis is the coal dust, however he does not deny the aetiological role as well as the mineral admixtures.

Iz Stalinskogo meditsinskogo inst.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAVVIN, V.A.

Answer to M.M.Kleiman. Gig. i san. 24 no.6:64-65 Je '59.
(MIRA 12:8)

(LUNGS--DUST DISEASES)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

ZAYIH, V.A., prof. doktor nauk; KIS, M.N., starshiy laborant

Prophylaxis for anthracosis. Bor'ba s sil. zaraz.-2:5 '62.
(MIRA 16:2)

1. Donetskiy meditsinskiy institut.

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1. [illegible]

2. USSR (600)

4. Scarlatina

7. Exercise therapy in scarlet fever (author's abstract)., Pediatriia, No.5, 1952.

9. **Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.**

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAVZIN, I.I., kand.med. nauk, laureat Stalinskoy premii

Plastics in medicine. Nauka i zhizn' 25 no.11:28-32 N '58.
(MIRA 11:12)

(Medicine) (Plastics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

VOZNESENSKIY, V.L.; NOSENKO, B.M.; RAVZIN, L.S.; YASKOLKO, V.Ya.

Luminescence of gypsum-base phosphors. Trudy SAGU no.65:23-31 '55. (MLRA 9:5)

(Luminescence) (Phosphors)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAVZIN, S. V.

USSR/Meteorology - Aerology Mar 52

"Explorers of the Atmosphere," S.V. Ravzin

"Nauka i Zhizn" Vol XIX, No 3, pp 20, 21

Aerology is practiced by Cen Aerol Obs of Main Survey, Hydrometeorol Service USSR, under guidance of V.G. Kastrov, who with S.S. Gaigerov analyses results of balloon-flight observations performed by P.P. Polosukhin, S.A. Zinov'yev, A.F. Krikun, L.V. Ivanova, A.M. Novoderezhkin, S.I. Semin, and M.M. Kirpichev. V.S. Khakhalin designed equipment which records on film the velocity and direction of vertical atm motion. Expt data used in this instrument were supplied by N.Z. Pinus and Ye. K. Verle.

216T21

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWA, Ales, inz.

Survey of some power plants abroad and the trend of their development. Energetika Cz 12 no.3:138-140 Mr '62.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWA, Ales, inz. (Praha)

New sources of electric power. Elektrotechnik 17 no.7:185-186 Jl '62.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWA, Krystyna, mgr inz.

Possibilities of appraising flax fibers in flax shops on the basis of laboratory hackling and carding. Przegl wlokien 18 no.11:Suppl:Biul inst przem wlok lyk 11 no.5:1-4 N '64.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWA, W.

The Modernization of Radom Foundries, p. 106.

PRZEGLAD ODLEWNICTWA. (Stowarzyszenie Techniczne Odlewnikow Polskich)
Krakow, Poland.
Vol. 9, no. 4, April 1959.

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 11, November 1959.
Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWCZYNSKA-ENGLERT, Irena

Methods and principles of cariometric investigations. Pol. tyg. lek. 20 no.29:1099-1101 19 Jl '65.

1. Z Kliniki Hematologii Instytutu Hematologii (Kierownik: prof. dr. med. Wlodzimierz Lawkowicz).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

POLAND/Chemical Technology. Chemical Products and Their Applications. Artificial and Synthetic Fibers. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21763

Author : Rawluk, Bernard
Inst :
Title : Reprocessing of Chemical Fibers of French Carding Machines.

Orig.Pub : Techn. wlokienn., 1958, 7, No 3, 76-77

Abstract : No abstract.

Card : 1/1

Q-8

RAWSKI W.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

POLAND / Farm Animals. Bees

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7259

Author : Rawski Wojciech
Inst : Not given
Title : Why Do Bees Raise Thousands of Drones?

Orig Pub: Pszczelarstwo, 1956, 7, No 7, 5-7

Abstract: For many centuries past, colonies of bees have been nesting in trees, separated from one another by hundreds, even a thousand, or more, of meters. Under these conditions, for a queen to meet with a "foreign" drone, it was necessary for each colony to raise a large number of drones. It has been estimated that there should be 5,000 of them. The saturation of the localities with drones was inversely proportional to the distance separating the colonies, approximately inversely

Ca Card 1/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAKOWIECKI, T.

RAKOWIECKI, T. Determination of the Real Orbit of the Companion of a Double Visual Star with the help of Three Positions. Poznanskie Towarzystwo przyjaciol nauk. Bulletin, Serie B: sciences mathematiques et naturelles, 1947, no. 8, p. 56-63.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RA..SKI, T.

"The Kubala affair." (To be contd.) p. 37 (Skrzydlate Polska, Vol. 9, no. 2, Feb 53, Warszawa)
"(d) Zolnierz Polski, the new literary and artistic periodical issued by the General Political Office of the Polish Army" p. 38 (Skrzydlate Polska, Vol. 9, no. 2, Feb 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, T.

"The Kubala affair; how Sanacja has built the Polish Air Force" p. 7 (Skrzydlate Polska, Vol. 9, no. 1, Jan 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, W.

The economic foundations in planning the control of mountain torrents of the Vistula Basin. p. 383.

GOSPODARKA WODNA. (Naczelna Organizacja Technicznal) Warszawa.
Vol. 14, no. 10, Oct. 1954.

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, no. 7, July 1956.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, Z.

Industrial safety and hygiene in the industrial establishments of the Praga Poludnie sector of Warsaw. Przegl techn 85 no.3:8 19 Ja '64.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWLUK, Jozef, mgr.

Labor productivity in the linen industry according to the 5-year plan.
Przegl techn no.22:5,8 Je '62

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWLUK, J.

Crucial economic problems of the flax industry. p. 148.

PRZEGLAD WLOKIENNICZY. (Stowaryszenie Inzynierow i Techników Przemyslu Wlokienniczego Lodz, Poland, Vol. 13, No. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1959.

Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWLUK, J.

The bast fiber industry. p. 295.

PRZEGLAD WLOKIENNICZY. (Stowarzyszenie Inzynierow i Techników Przemyslu Slokienniczego) Lodz, Poland. Vol. 12, no. 5/6, May/June 1958.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959.

Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, Zenon, mgr

The technician, the first ally of the economist. Przegl techn no.42:5 21 O '62.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, Zenon, mgr

Labor hygiene in industrial enterprises in one district of the city of Warsaw. Przegl techn no.14:3,4 8 Ap '62.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, Z., mgr

The educational center for mechanics-opticians; its difficulties and needs. Przegl techn no.2:15 10 Ja '62.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAWSKI, Zenon, mgr.

Industrial hygiene in industrial enterprises of one district of the city of Warsaw. Przegl techn no.14:3-4 Ap '62.

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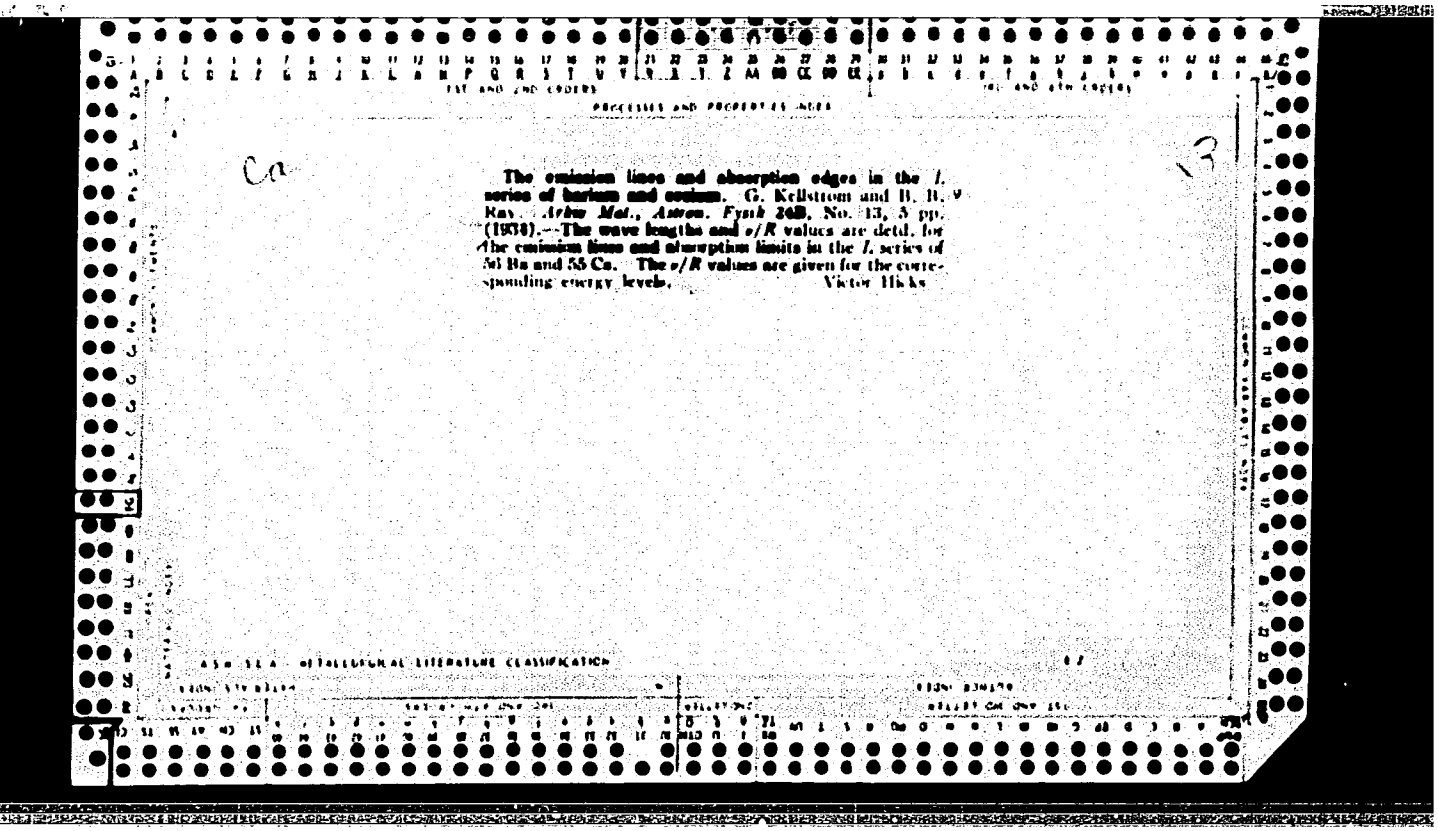

The emission lines and absorption edges in the *L* series of barium and cesium. G. Kellström and H. H. v Ray. *Arkiv Mat., Astron. Fysik* 24B, No. 13, 5 pp. (1938).—The wave lengths and ν/R values are detd. for the emission lines and absorption limits in the *L* series of 56 Ba and 55 Cs. The ν/R values are given for the corresponding energy levels. Victor Hicks

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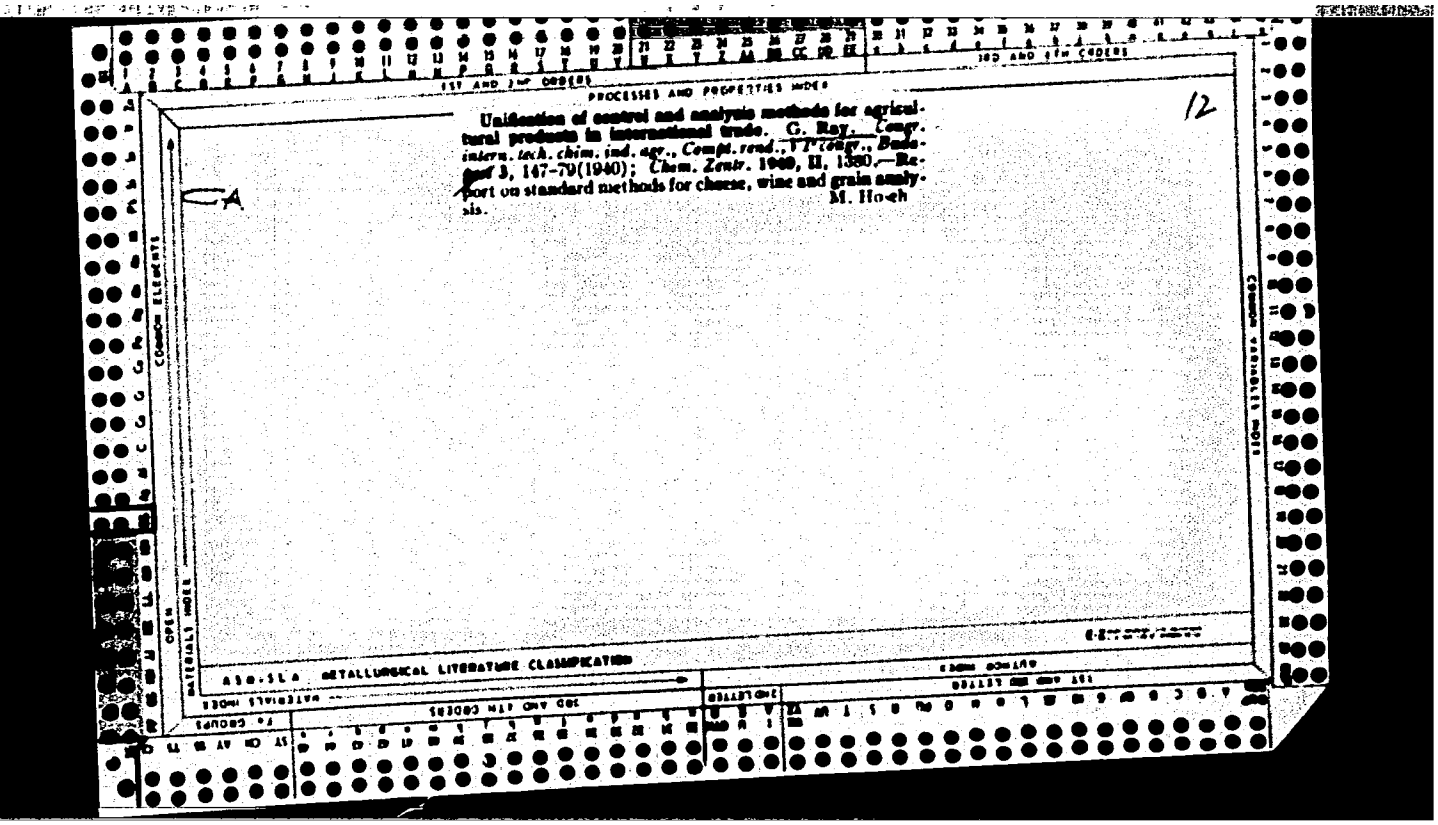
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444



PROCESSES AND PROPERTIES INDEX

12

Unification of control and analysis methods for agricultural products in international trade. G. Ray. *Congr. intern. tech. chim. ind. agr., Compt. rend., VI (Congr., Bude-pest 3, 147-79(1940); Chem. Zentr.* 1940, II, 1380.—Report on standard methods for cheese, wine and grain analysis.
M. Hoch

CA

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

ALMAZOV, A.M., doktor geogr. nauk; BONDAR, K.; VAGIN, N.F.; GEDERIM, V.; D'YAKONU, K.[Diaconu,C.]; MITSE,P.[Mită,P.]; STENESKU,V.[Stanescu,V.]; STENESKU, S.[Stanescu,S.]; MAYSTRENKO, Yu.G.; MIKHAYLOV, V.N., kand. geogr. nauk; NIKIFOROV, Ya.D., kand.tekhn. nauk; RAY, I.A.; RODIONOV, N.A.; MINENKO, V.M., red.; ZARKH, I.M., tekhn. red.

[Hydrology of the region of the Danube estuary] Gidrologiia ust'evoi oblasti Dunaia. [By] A.M.Almazov i dr. Moskva, Gidrometeoizdat (otdelenie), 1963. 382 p. (MIRA 17:1)

1. Gosudarstvennyy okeanograficheskiy institut Glavnogo upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR (for Mikhaylov, Nikiforov, Rodionov).
2. Dunayskaya gidrometeorologicheskaya observatoriya Upravleniya gidrometeorologicheskoy sluzhby Ukr.SSR (for Vagin, Ray).
3. Institut gidrobiologii AN Ukr.SSR (for Almazov, Maystrenko).
4. Nauchno-issledovatel'skiy institut gidrotekhniki Komiteta vodnogo khozyaystva Rumynskoy Narodnoy Respubliki (for Bondar, Gederim, D'yakonu, Mitse,, Stenesku, V., Stenesku, S.).

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MIRONOV, V.P.; PEYCH, N.N., redaktor; RAY, N.I., redaktor; VORONTSOVA, L.M., tekhnicheskiy redaktor

[Improving the quality of wood drying for the manufacture of skis and furniture] Uluchshenie kachestva sushki drevesiny dlia luzhnogo i mebel'nogo proizvodstva. Pod red. N.N.Peich. Moskva, Gos.izd-vo mestnoi promyshl. RSFSR, 1957. 62 p. (MLRA 10:10)
(Lumber--Drying)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAY, N.I., redaktor; BORISOV, A.S., tekhnicheskiy redaktor

[Efficient workers in an accordion factory; work practice of the Sovetskaia Armiia Accordion Factory in Moscow] Ratsionalizatory baiannoi fabriki; iz opyta raboty Moskovskoi baiannoi fabriki im. Sovetskoi Armii. Moskva, Gos. izd-vo mestnoi promyshl. RSFSR, 1955 34 p. (MIRA 9:12)

(Accordions)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAY, P.

Ray, P. and Goswami, B. K.

Compounds of hydrazine with metallic sulfites and nitrites

Z. anorg. allgem. Chem., Vol. 168, 1928, pp. 329-338

Chem. Abs., Vol. 22, 2:1921

Metallic sulfites react in the presence of excess H_2SO_3 with N_2H_4 solns. (dil. or concd.) to form compds. of the type: $(MSO_3)_n.xN_2H_4$. These react further with SO_2 to form more complex compds. such as $CoSO_3.(N_2H_4)_2SO_3.2H_2O$. The following compds. are prepd.--With Mn: $MnSO_3.N_2H_4.H_2SO_3$, acid to litmus, slightly sol. in H_2O, stable on boiling, and pptd. by NH OH as $Mn(OH)_2$. With Co: From the normal sulfite $5CoSO_3.9N_2H_4.6H_2O$(A), a light red powder, neutral to litmus, slightly sol. in H_2O, decompd. by boiling to $Co(OH)_2$. From the bisulfite was obtained, on careful drying of the product $CoSO_3.2N_2H_4.H_2O$ (B), red, cryst., alk. to litmus, decompd. on boiling to $Co(OH)_2$. On treating A with SO_2 and pptn. with alc., $2CoSO_3.N_2H_4.3H_2O$ is formed, cryst., neutral to litmus, stable on boiling. B, treated with SO_2, gives a red cryst. product, $CoSO_3.(N_2H_4)_2SO_3.2H_2O$, very sol. in H_2O, sol. in NH OH. If B is repeatedly evapd. to dryness with H_2SO_3, $CoSO_3.N_2H_4.H_2SO_3.\frac{1}{2}H_2O$ is formed, red, cryst., acid to litmus, sol. in H_2SO_3, sol. in NH OH. With Ni: From the carbonate treated with SO_2 and N_2H_4 was obtained, $NiSO_3.3N_2H_4.H_2O$, rose colored, alk. to litmus, insol. in H_2O, decompd. violently

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Ray, P. and Goswami, B. K.

Chem. Abs., Vol. 22, 2:1921

by concd. HNO_3. The bisulfite gives $NiSO_3.2N_2H_4.H_2O$ (C), blue, alk. to litmus, slightly sol. in H_2O. On treating C with SO_2, $4NiSO_3.3N_2H_4.7H_2O$ is obtained, green cryst., neutral to litmus, insol. in H_2O. With Zn: The bisulfite D, given $ZnSO_3.2N_2H_4.1\frac{1}{2}H_2O$ (D), white, alk. to litmus, slightly sol. in H_2O, sol. in NaOH. D, treated with SO_2, yields $ZnSO_3.N_2H_4.H_2SO_3$, acid to litmus, sol. in NaOH. With Cd: From $CdCO_3$ treated with SO_2 and then with N_2H_4 was obtained $CdSO_3.N_2H_4$ (E), alk. to litmus, insol. in H_2O, sol. in dil. NH_4OH. E, treated with SO_2, gives $CdSO_3.N_2H_4.H_2SO_3$, acid to litmus, sol. in dil. NH_4OH. N_2H_4 forms similar compds. with the nitrates of Co, Ni and Cd, but not with Zn and Mn. The following are described: $2Co(NO_3)_2.3N_2H_4$, dull red; $Ni(NO_3)_2.2N_2H_4$, blue violet; $Cd(NO_3)_2.2N_2H_4$, white. These decompose with detonation on heating, and explode when treated with concd. H_2SO_4 or HNO_3. Dil. acid gives N_2 and N_2O. They are all alk. to litmus. H. Stoertz

Card 2 of 2 cards

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAY, P.

Ray, P. and Sarkar, P. B.

Application of Hexamethylenetetramine, Ammonia and Hydrazine as Microchemical Reagents.

Mikrochem. Emich Festschr. 1930, pp. 243-253

Chem. Abstl, V. 25, pt. 2, 1931, pp. 3262-3263.

$(CH_2)_6N$ in the presence of ferro- or ferri-cyanide or of nitroprusside yields with Mg salts well-defined cryst. ppts., the sensitivity being 0.0005-0.008 µg; Ca and Li may be detected by the same reagents, but the sensitivity for Li is only 0.065 µg. Mo (0.065 g) in H_2SO_4 soln. yields with $(CH_2)_6N_4$ characteristics white needles. Ag (0.065) Mn (0.02), Ni (0.15) and Co (0.02) yield with $Na_2S_2O_8$ and $(CH_2)_6N_4$ characteristic white or colored crystals. From a soln. of Cu $(SCN)_2$ gaseous NH_3 causes the sepn. of blue needles of the compn. $Cu(SCN)_2\ 2NH_3$, the limit of sensitivity being 0.065 g of Cu; Zn and Cd yield with NH_4SCN and N_2H_4 colorless crystals of $M(SCN)_2.2N_2H_4$, the sensitivity limits being 0.15 and 0.065 µ g., resp.

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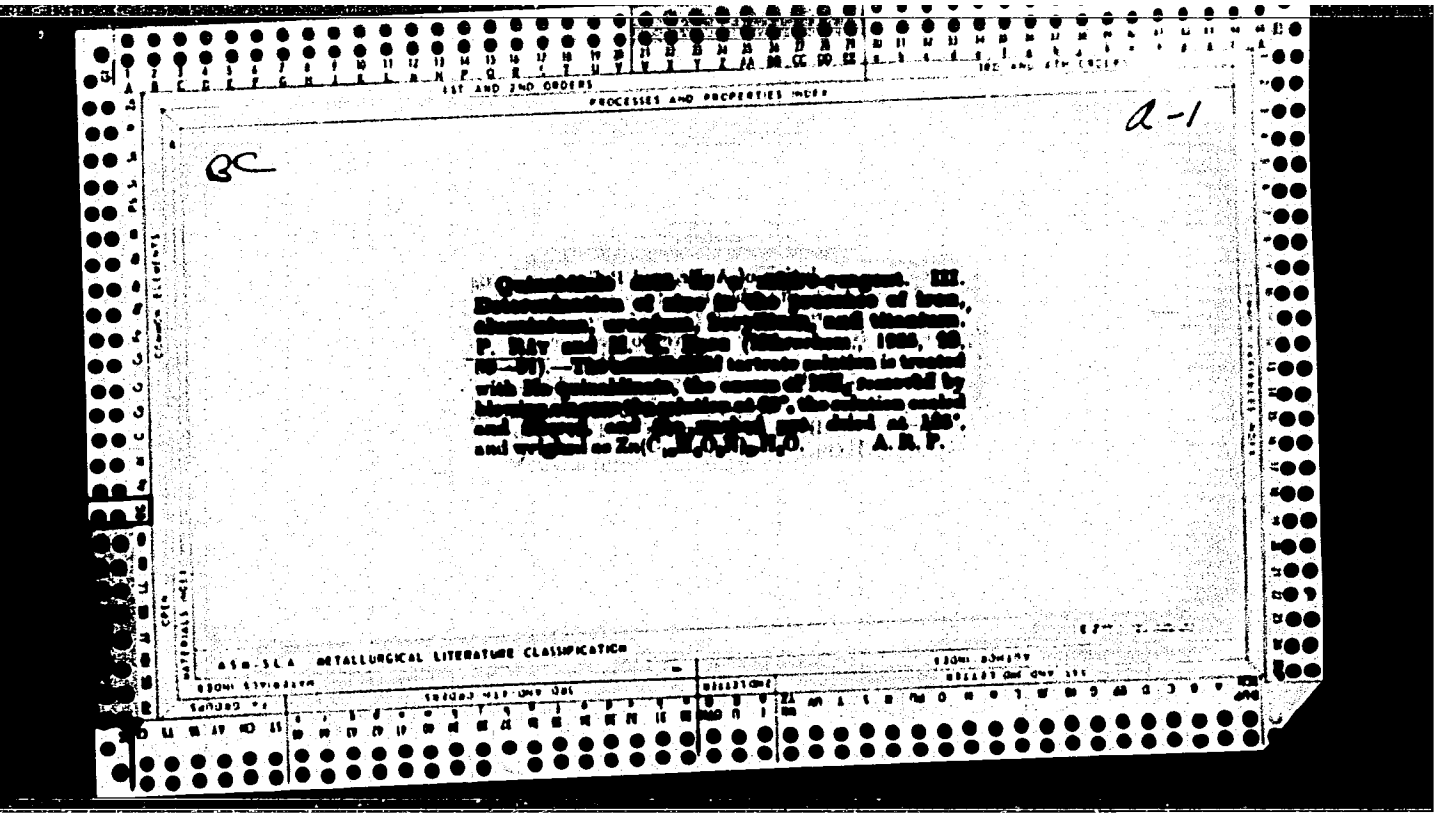

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAY, P. R.

Ray, P. R., and Gupta, P. N. D.

Double ferrocyanides of hydrazine and metals

Z. anorg. allgem. Chem., Vol. 140, 1924, pp. 81-92

Chem. Abs., Vol. 19, p. 619

Complex hydrazine ferrocyanides of Cu, Ni, Co, Fe and Zn analogous to complex K and NH_4 ferrocyanides were formed by addn. of excess hydrazine ferrocyanide soln. to aq. solns. of the metal salts. A no. of salts are acidic.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAY, P. R.

Ray, P. R., and Sen, H. K.

Action of Hydrazine and Hydrozylamine on Ferricyanides and New Methods for the Determination of Hydrazine and Ferricyanides.

Z. Anorg. Chem., Vol. 76, pp. 280-6

Chem. Abs., Vol. 6:3071

When a salt of $NH_2.NH_2$ is added to an alk. soln. of $K_3Fe(CN)_6$ a violent reaction occurs. The $K_3Fe(CN)_6$ is reduced to $K_4Fe(CN)_6$ and N is evolved. The writers have taken advantage of this evolution of N to determine $NH_2.NH_2$ and also $K_3Fe(CN)_6$. In either case the N is measured in a nitrometer. If the % of $NH_2.NH_2$ is sought a weighed portion of one of its salts is treated with an excess of $K_3Fe(CN)_6$ in alk. soln. If the % of $K_3Fe(CN)_6$ is desired, a weighed amt. is treated with an excess of a satd. alk. soln. of $NH_2.NH_2.H_2SO_4$.

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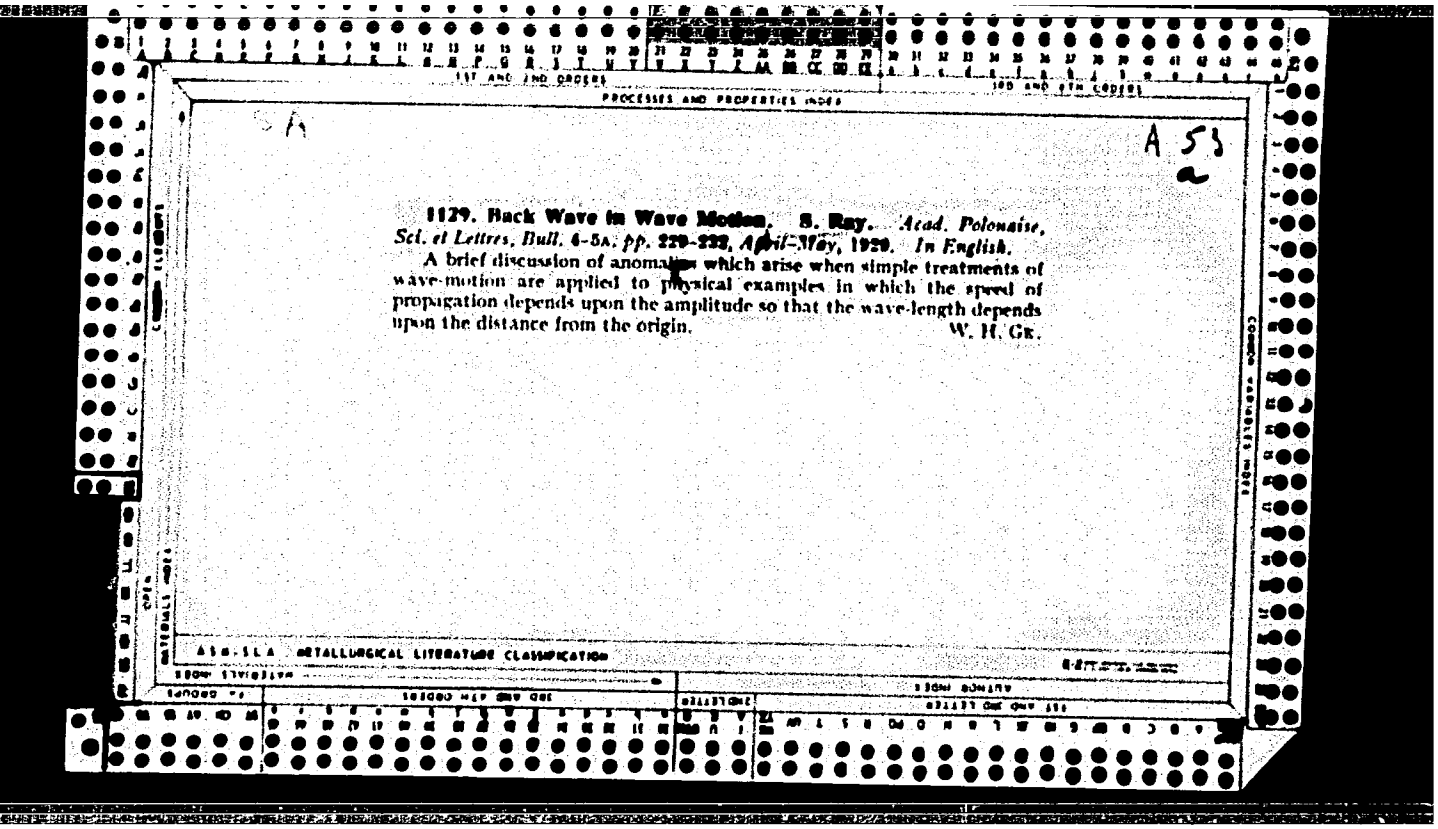

PROCESSES AND PROPERTIES INDEX

A 53
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1129. Back Wave in Wave Motion. S. Ray. *Acad. Polonaise, Sci. et Lettres, Bull.* 6-8A, *pp.* 229-232, April-May, 1929. *In English.*

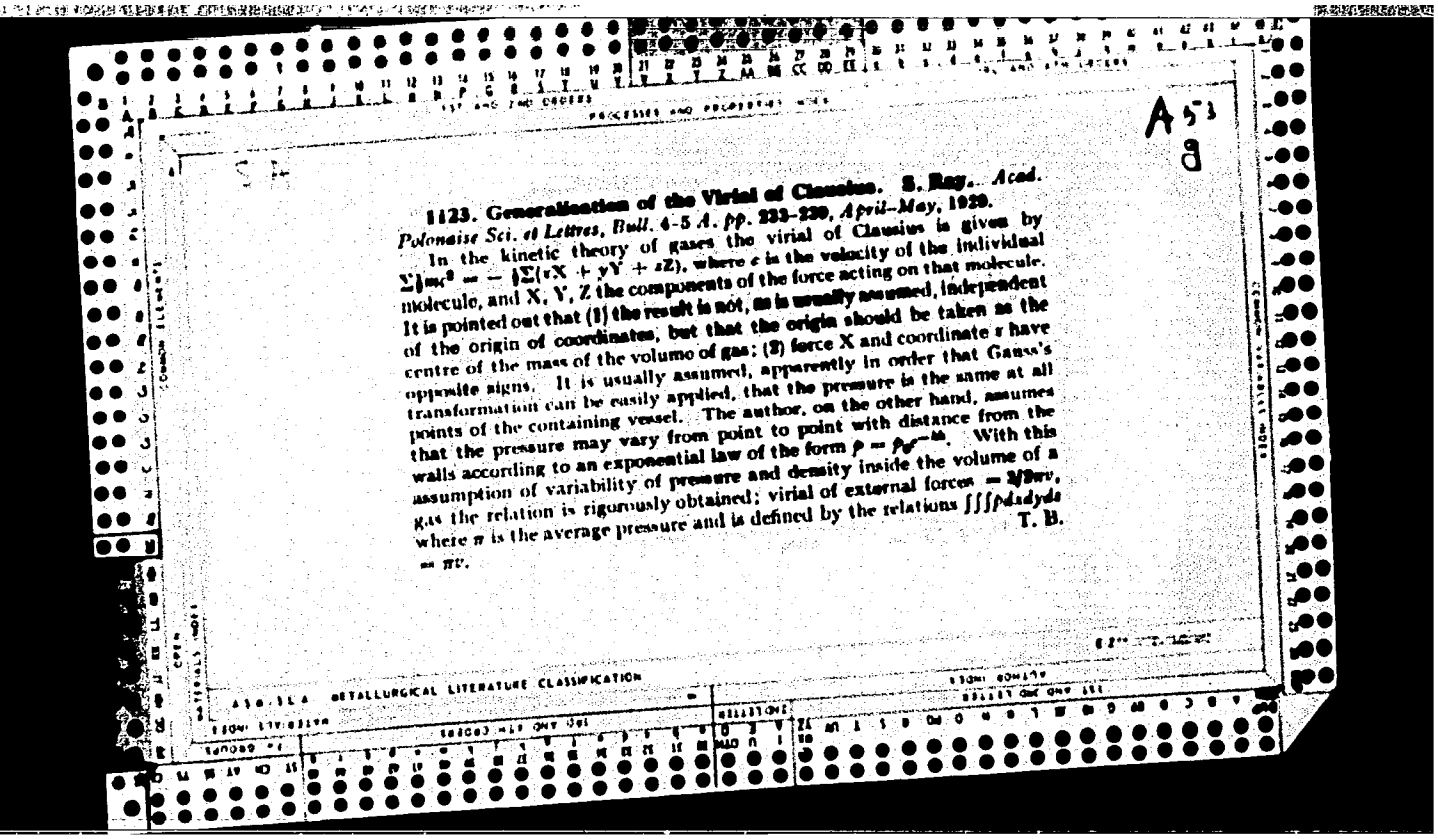
A brief discussion of anomalies which arise when simple treatments of wave-motion are applied to physical examples in which the speed of propagation depends upon the amplitude so that the wave-length depends upon the distance from the origin.

W. H. Gr.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444



1123. **Generalisation of the Virial of Clausius.** S. Ray. *Acad. Polonaise Sci. et Lettres, Bull.* 4-5 *A. pp.* 233-239, *April–May*, 1929.

In the kinetic theory of gases the virial of Clausius is given by $\Sigma\frac{1}{2}mc^2 = -\frac{1}{2}\Sigma(xX + yY + zZ)$, where c is the velocity of the individual molecule, and X, Y, Z the components of the force acting on that molecule. It is pointed out that (1) the result is not, as is usually assumed, independent of the origin of coordinates, but that the origin should be taken as the centre of the mass of the volume of gas; (2) force X and coordinate x have opposite signs. It is usually assumed, apparently in order that Gauss's transformation can be easily applied, that the pressure is the same at all points of the containing vessel. The author, on the other hand, assumes that the pressure may vary from point to point with distance from the walls according to an exponential law of the form $p = p_0 e^{-kx}$. With this assumption of variability of pressure and density inside the volume of a gas the relation is rigorously obtained; virial of external forces $= 3\bar{p}v$, where $\bar{p}$ is the average pressure and is defined by the relations $\iiint p\,dx\,dy\,dz = \bar{p}v$.

T. B.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYA, R.A. [Raja,R.], veterinarnyy vrach

Leptospirosis of swine in the Estonian S.S.R. Veterinariia 38 no.11:46-48 N '61 (MIRA 18:1)

1. Estonskaya respublikanskaya veterinarno-bakteriologicheskaya laboratoriya.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MEDINSKIY, G.M.; RAYA, R.A. [Raja, R.]; TOKAREVICH, K.N., prof., nauchnyy rukovoditel'

Data on the susceptibility of the dogs and cats in the Estonian S.S.R. to Leptospira infection. Trudy Len.inst.epid.i mikrobiol. 20:171-174 '59. (MIRA 16:1)

(ESTONIA— DOGS—DISEASES AND PESTS)
(ESTONIA—CATS—DISEASES AND PESTS)
(LEPTOSPIROSIS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYA, R. A. (Veterinary Doctor, Veterinary Bacteriological Laboratory of the Republic).

"Leptospirosis of Swine in the Estonian SSR".
Veterinariya vol. 38., no. 11., November 1961., p. 46

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

L 29349-66

ACC NR: AP5021508 (A) SOURCE CODE: UR/0327/65/000/007/0034/0037

AUTHOR: Kokorin, O. Ya. (Candidate of technical sciences); Rayak, M. B. (Engineer)

ORG: none

TITLE: Use of evaporation air-refrigeration in poultry-breeding industries

SOURCE: Vodosnabzheniye i sanitarnaya tekhnika, no. 7, 1965, 34-37

TOPIC TAGS: commercial animal, refrigerating system, animal husbandry

ABSTRACT: The authors describe a refrigeration system for keeping temperatures in poultry-breeding industries at an even year-round 22-25°C, and a humidity of 60-70%, which are believed to be best for healthy plumage and egg laying. There are 3 figures, 1 table and 5 references.

SUB CODE: 02/ SUBM DATE: none / SOV REF: 005

Card 1/1 UDC: 697.9:631.2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYAK, M.B., inzh.

Climatic zones of the evaporative cooling of the air.
Vod.i san.tekh. no.4:29-35 Ap '65.
(MIRA 19:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

KOKORIN, O.Ya., kand.tekhn.nauk; RAYAK, M.V., inzh.

Air cooling of mobile quarters on railroad cars. Stroi. truboprov. 8 no.1:6-7 Ja '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR.
(Railroads--Cars--Heating and ventilation)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

British Abst.
A I
Aug. 1953
Chemical Equilibria and Kinetics

Formation of carbon on the surface in the thermal decomposition of hydrocarbons. P. A. Tesner and I. Sh. Rafikov. *Doklady Akad. Nauk U.R.S.S.*, 87, 821–824.—CH_4, C_2H_2, and C_6H_6 diluted with N_2 are passed at temp. from 700° to 1000° over lamp black or Pt, and the amounts of C deposited are determined by weighing. The rates of deposition of C from hydrocarbon-N_2 mixtures are proportional to the % of hydrocarbon in the mixture, the experimental points for the three hydrocarbons falling on the same straight line. H_2 formed during the decomposition reaction lowers the rate of C deposition and prevents the determination of the abs. value of the rate. Admixture of 50% of H_2 virtually stops the deposition of C. On Pt, porcelain, quartz, Al_2O_3, and aluminosilicates the rate is slower than on a C surface and increases as the surface becomes coated with C. The formation of C has a high temp. coeff. and an activation energy of 70—100 kg.-cal. per g.-mol. The quantities of H_2 and C formed are in stoicheiometric ratios.

S. K. Lachowicz

511-53

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYALO, G.Yu., Cand Tech Sci -- (diss) "Mass-transmission in distillation with [illegible] steam in film type [illegible] cameras."
Len 1958, 17 pp (Min of Higher Education USSR. Len Order of Labor Red Banner Technological Inst im Lensovet. Chair of Processes and Apparatuses.) 120 copies (KL, 42-58, 116)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYALO, G.Yu.; ROMANKOV, P.G.

Separation of binary mixtures by steam distillation in wetted-wall columns. Trudy LTI no.46:147-161 '58. (MIRA 14:4)
(Distillation) (Mass transfer)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

SEVULESKU, A. [Savulescu. A.]; g. Bukharest, Rumyniya; RAYANU, M., g. Bukharest, Rumyniya; RAYKU, K., g. Bukharest, Rumyaniya; MOSHNYAGE, V., g. Bukharest, Rumyniya

Determining the rot resistance of seeds and seedings in corn varieties, lines, and hybrids by the "cold" germination method. Agrobiologiia no.5:763-765 S-O '61. (MIRA 14:10)
(Corn (Maize))--Varieties)
(Germination)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

SAARMA, V.A. [Saarmaa, V.]; RAYASSAR, Y.S. [Rajasaar, 6.]

Proteinogram in guinea pigs. Lab.delo 8 no.5:54-55 My '62.
(MIRA 15:12)

1. Kafedra gospital'noy terapii Tartuskogo gosudarstvennogo universiteta.
(BLOOD PROTEINS) (GUINEA PIGS--PHYSIOLOGY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYATSKAS, V.I., inzh.; ZYBIN, Yu.P., prof.

Size designation and basic dimensions of shoe lasts. Kozh.-obuv. prom. 3 no.6:15-18 Je '61. (MIRA 14:8)
(Boots and shoes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYATSKAS, V.L., inzh.; ZYBIN, Yu.P., doktor tekhn.nauk, prof.

Plotting the theoretical development of the side surface of the last by means of stiff sheathing. Izv.vys.ucheb.zav.; tekh.leg.pro. no.1:126-136 '63. (MIRA 16:3)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii izdeliy iz khozhi.
(Shoe manufacture)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYATSKAS, V.L.; SHAL'CHYUTE, I.P.

Use of sodium silicate as thickener in LNT-a chloroprene latex.
Kozh.-obuv. prom. 6 no.7:24-26 Jl '64. (MIRA 17:8)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYATSKAS, V.L., inzh.; ZYBIN, Yu.P.

Designing patterns for flat and semiflat shoe uppers according to a stiff sheathing. Izv.vys.ucheb.zav.; tekh.leg.prom. no.1:137-150 '63. (MIRA 16:3)

1. Moskovskiy tekhnologicehskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii izdeliy iz kozhi.
(Shoe manufacture)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

L 52140-65 EPF(c)/EPR/EWP(j)/EWT(m)/T/EWP(v) Pc-4/Pr-4/Ps-4 RM/WW

ACCESSION NR: AP5015284 UR/0286/65/000/009/0066/0066

AUTHORS: Nurkse, Kh. Kh.-E.; Rayaveye, E. L. 28 B

TITLE: A method for obtaining low-viscosity resol cementing resins. Class 39, No. 170656 15 16

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 66

TOPIC TAGS: resin, resol resin, cement, shale, phenol, formaldehyde, ethyl alcohol

ABSTRACT: This Author Certificate presents a method for obtaining low-viscosity cementing resol resins based on the fraction of shale oil phenols, formaldehyde, and ethyl alcohol heating in the presence of a basic catalyst. To increase the stability of resins and to shorten the time of their synthesis, fractions of shale oil phenols are first condensed with formaldehyde. After the condensate is held until the free formaldehyde content in the finished resin is no higher than 2%, cold ethyl alcohol is added until the content of dry matter in the finished resin is no less than 40%.

ASSOCIATION: Institut slantsev SNKh ESSR (Institute of Shales, SNKh ESSR)

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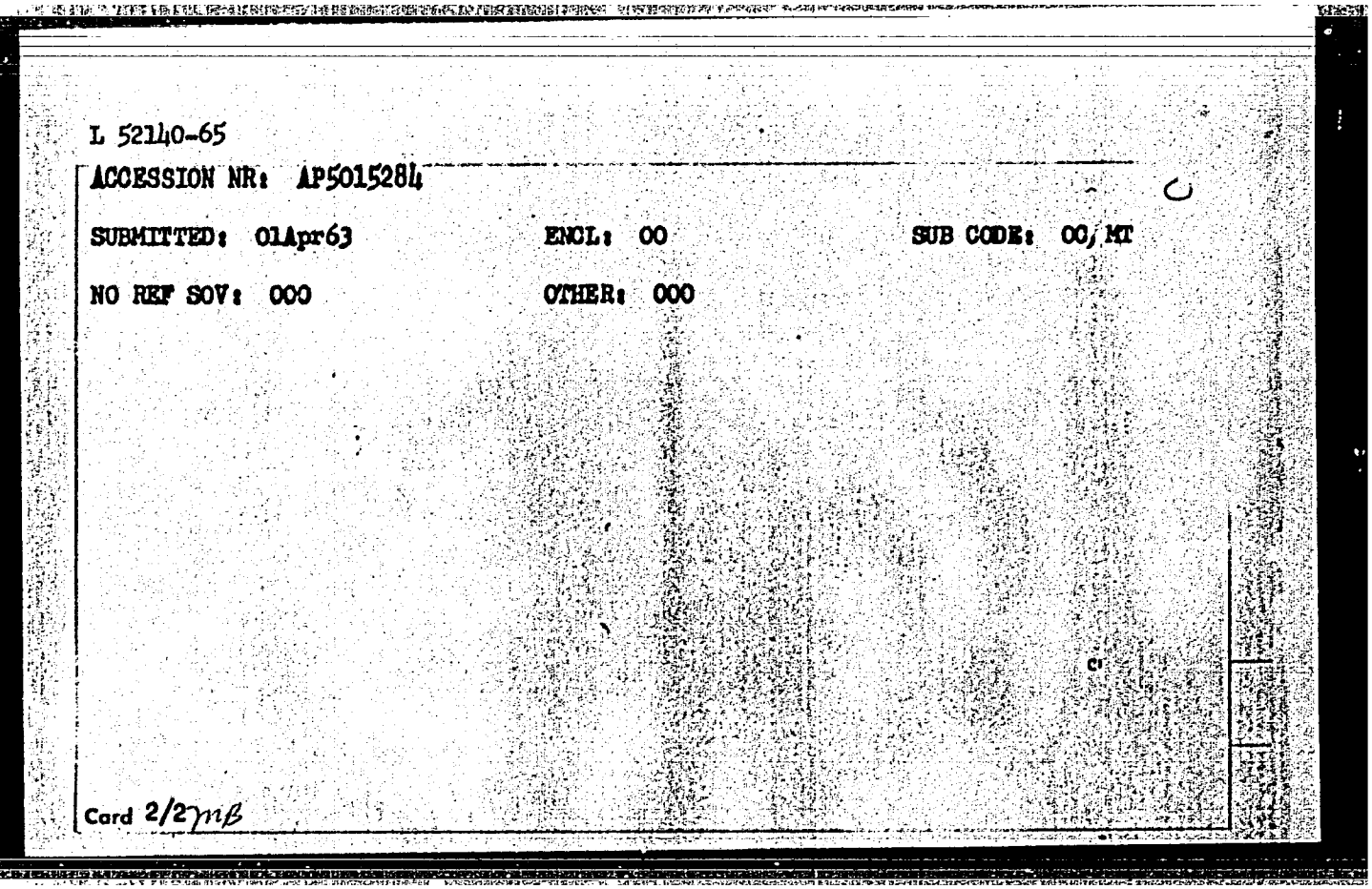

L 52140-65

ACCESSION NR: AP5015284

SUBMITTED: 01Apr63 ENCL: 00 SUB CODE: OO, MT

NO REF SOV: 000 OTHER: 000

Card 2/2 mb

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYAVEYE, E.L. [Rajavee, E.]; MOSKVITINA, K.A.; SIPOVSKIY, G.V.

Experience in the preparation of mastics with a base of shale bitumen. Khim. i tekh. gor. slan. i prod. ikh perer no.13: 190-197 '64. (MIRA 18:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

NURKSE, Kh.Kh. [Nurkse, H.]; RAYAVEYE, E. [Rajavee, E]

Experience in the production and industrial use of KIS-1 adhesives.
Khim. i tekh. gor. slan. i prod. ikh perer no.13:285-294 '64.
(MIRA 18:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYAVEYE, E.L. [Rajavee, E.]; KAL'BERG, A.O. [Kalberg, A.]

Obtaining higher alcohols. Khim. i tekh. gor. slan. i prod. ikh perer. no.11:331-336 '62. (MIRA 17:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

METSIK, R.; TOMBERG, A.; RAYAVEE, E. [Rajavee, E.]

Factors influencing the composition of phenols extracted in a condensation system of gas-generator stations. Khim. i tekh.gor.slan. i prod. ikh perer. no.12:161-168 '63. (MIRA 17:2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

METSIK, R.; TOMBERG, A.; RAYAVEE, E. [Rajavee, E.]; KIVIMAA, Kh. [Kivimaa, H.]

Investigating phenols extracted from semicoking shale tars by sodium carbonate aqueous solutions. Khim. i tekh.gor.slan. i prod. ikh perer. no.12:181-192 '63. (MIRA 17:2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

KHYUSSE, I.Yu.; SHELOUMOV, V.V.; RAYAVEYE, E.L.; METSIK, R.E.; KIVIMAA, Kh.M. [Kivimaa, H.]

Certain possibilities of increasing water soluble phenol resources. Khim. i tekh. gor. slan. i prod. ikh perer. no.11:230-235 '62. (MIRA 17:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYAVEE, O.L.

Pharmacology of vipratox. Farm.i toks. 24 no.6:713-719 N-D '61.
(MIRA 15:11)

1. Kafedra farmakologii (zav. - prof. G.Ya.Kingisepp) Tartuskogo gosudarstvennogo universiteta.
(VENOM--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYAVEE, O.I. [Rajavee, O.]; MUHAMED, L.B.

Functional elimination and toxicity of barbamyl and pentothal sodium in hypothermia. Farm. i toks. 26 no.5:556-559 S-O '63. (MIRA 17:8)

1. Kafedra farmakologii (zav. - doktor med. nauk prof. G.Ya. Kingisepp) Tartuskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYAVEE, O. L.

RAYAVEE, O. L. --"Comparative Effectiveness of Respiratory Analeptics in the Case of Poisoning with Barbamil and Sodium Pentothal. (Experimental Pharmacological Investigation)." * (Dissertations for Degrees in Science and Engineering Defended at USSR, Higher Educational Institutions.) Tartu State U, Tartu, 1955

SO: Knizhnaya Letopis' No. 34, 20 August 1955

* For the Degree of Doctor of Medical Sciences

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

SEMENOV, S.S.; GUREVICH, B.Ye. Prinimali uchastiye: NIKOLAYEVA, A.I., tekhnik; RAYAVEYE, E.L. [Rajavee, E.]; KAL'BERG, A.O. [Kalberg, A.] inzh.

Production of higher alcohols from the natural gas gasoline of tunnel kilns in a pilot plant. Trudy VNIIT no.9:91-98 '60. (MIRA 13:11)

1. Kombinat Kokhtla-Yarve (for Rayaveye). 2. Institut slantsev Estonskogo Soveta narodnogo Khozyaystva (for Kal'berg).
(Alcohols) (Oil shales)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

Ural'skoye soveshchaniye po spektroskopii

Materialy 2 Ural'skogo soveshchaniya po spektroskopii, Sverdlovsk, 1958 g. (Materials of the Second Ural Conference on Spectroscopy, Held in Sverdlovsk, 1958) Sverdlovsk, Metallurgizdat, 1959. 206 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Ural'skiy filial Akademii nauk SSSR. Komissiya po spektroskopii and Ural'skiy dom nauchnoy tekhniki VNTO.

Ed.: Ivan Nikolayevich Zaporozhets; Tech. Ed.: M. Mityurev.

PURPOSE: This collection of articles is intended for spectral analysis laboratory workers at ferrous and nonferrous metallurgical plants, and for laboratory personnel of the metal-working industry, geological and prospecting organizations, and similar scientific research laboratories.

COVERAGE: The collection contains papers read at the Second Ural Conference on the spectral analysis of ferrous and nonferrous metals and alloys, ores, agglomerates, refractories and other materials used in industry. The material of the conference includes articles on the analysis of steels (including the determination of gases), ferroalloys, nonferrous and light metals and alloys, pure noble metals, etc. The present volume is intended to disseminate the latest experience in working with spectral laboratories, and to report on the results of scientific research. The author thanks N. I. Ostrikova and Yu. M. Kurylev. Almost all of the articles are accompanied by references.

Zaporozhets, A. A., and M. M. Svirikova. Spectral Analysis of Silver-Copper Alloys From a Standard of Silver and of any Silver-Copper Alloy 116

Burmasov, A. A., B. I. Chesnokov, and V. D. Pozdnyakov. Methods of Preparing Standards for the Spectral Analysis of Epoxy Iridium and Rhodium 123

Pozdnyakov, V. I., A. D. Ostrina, B. M. Bratukhina, and E. D. Knyazeva. Spectral Method of Analyzing Refined Iridium and Rhodium 128

Ostrina, A. D. Spectrochemical Analysis of High-Purity Antimony 134

Strukova, N. N., and Yu. I. Korovin. Some Problems in the Spectral Analysis of Slags, Ores, and Agglomerates 138

Strukova, N. N., V. I. Arkadiyeva, Ye. V. Zavarina, I. M. Shtrumberg, and T. A. Yermakova. Possibility of Using a Pilot Source for the Analysis of Slags and Agglomerates 146

Letnikova, P. F., and G. F. Prozhavalenkaya. Spectral Determination of Oxides of Vanadium, Magnesium, and Calcium in Agglomerate by the Dilution Method 154

Bakhtar, Yu. A., and A. M. Sharvin. Determination of Titanium in Titanomagnetites and Slags by the Dilution Method 157

Smekhov, F. V. Spectral Analysis in the Refractories Industry 159

Plotnik, K. Z. Investigation of Certain Characteristics of Reporting and Excitation of Elements in Assay-with-Graphite Mixtures in the Spectral Analysis of Ores and Minerals 166

Ivanitskaya, Ye. A. Effect of Certain Factors on the Intensity of Spectral Lines in the Semiconducting Powdered Assays 173

Kolobel'nikova, R. P., and Ye. D. Reydeman. Spectrographic Determination of Niobium and Tantalum in Products of Ore Dressing 175

Prokhorov, V. G. Application of Visual Spectroscopy Methods in the Analysis of Rock, Ores, and Minerals 180

Silicheva, R. S. Experience in Operating the Spectral Laboratory of a Geological Prospecting Party 184

Berezovskiy, I. S., O. D. Frenkel', and A. P. Korylova. Spectral Determination of Iron and Germanium in Sublimates of Copper-Smelting Plants 186

Smolina, S. N. Spectral Analysis of Saline and Alkaline Baths Used in the Heat Treatment of Steel Products 188

Peden, F. Ch. Low-Voltage Pulse-Discharge Generator for Exciting Spectra 191

Perko, M. M. Method of Taking Into Account Background and Impurities in Practical Work at a Plant Spectral Laboratory. 194

Recommendations of the 2nd Ural Conference on Spectroscopy 202

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBAUM, Ya. D.

4

USSR.

6357 AEC-tr-2194(p.C1-2)
ON THE ELECTRIC EROSION OF METALS IN A SPARK DISCHARGE (condensation). Ya. (Ia.) D. Raibaum and A. G. Krest'ianinov. Translated from Izvest. Akad. Nauk S.S.S.R. Ser. Fiz. 18, 258(1954). 2p. Available from Columbia Technical Translations, White Plains, N. Y.

The atomization of various metals in spark discharges was investigated. It was found that erosion is fairly stable for each metal, depending primarily on the character of the discharge. It was shown that the closest correlation between amount of corrosion and thermal constants exists between All, the difference in heat content of the solid and gaseous states, and the characteristic temperature of the metal. (B.J.H.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBCHIKOV, D. I.

USSR (600)

Chemistry, Analytic

Complex compounds and their application in analytical chemistry., Zhur. anal. khim., 7 No. 1, 1952.

Monthly List of Russian Acessions, Library of Congress, April 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

POETOVA, V.T.; RAYBEKAS, M.F.

Distribution of erythrocytes in the blood as to their immune resistance in a healthy person. Izv. SO AN SSSR no.12: Ser. biol.-med. nauk no.3:127-132 '64. (MIRA 18:6)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

S/080/62/035/011/004/011
D287/D307

AUTHORS: Marchenko, N.A., Gladkiy, I.N., and Rayber, E.S.

TITLE: Adhesion of electrolytic coatings to an electronegative base

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 11, 1962, 2445 - 2448

TEXT: A general method for the preparation of an electronegative base, comprising the activation of the surface, is described. The coatings were applied on titanium, aluminum and their alloys. Activation of the surface (up to the time of formation of the metallic deposit) is recommended as the attraction between the atoms of the base and of the coating will reach their highest value in this case. The magnitude of the active surface was calculated by the oscillographic method and by plotting polarization curves. Experiments were also carried out on the corrosion of titanium in H_2SO_4 solutions of varying concentration and at different temperatures to determine optimum conditions for the activation of Ti. The degree of activity

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was controlled by determining the potentials oscillographically and by using a cathode voltmeter. The magnitude of the active surface is also influenced by the initial current density and increases with increasing current densities. Washing before the deposition of the coating should be omitted as this passivates the surface. Current impulses should be applied during the initial stages of the coating process. The authors have also carried out experiments on the chromium-plating of cylinders АВС (DVS), made of the alloy АЛ 10В (AL 10V), when D_α - 10 a/dm^2. A porous oxide layer of granular structure was formed. There are 4 figures and 2 tables.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina (Khar'kov Polytechnic Institute imeni V.I. Lenin)

SUBMITTED: July 13, 1961

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

ACCESSION NR: AR4014554 S/0276/63/000/012/B089/B090

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 12B599

AUTHOR: Gladkiy, I. N.; Rayber, Z. S.

TITLE: Copper plating of titanium

CITED SOURCE: Tr. Khar'kovsk. politekhn. in-ta, v. 45, 1963, 59-63

TOPIC TAGS: plating, metal plating, copper plating, copper plating titanium, plating titanium, electroplating, electrolytic plating, titanium electroplating

TRANSLATION: The results are given of research on working out the technological process of a system of copper plating on titanium which has a good quality of cohesion. The effect of preparatory operations and deposition conditions on the degree of activity of the titanium base and its cohesion to the plating is studied by the oscillograph method. The following technological system of copper plating is recommended: degreasing in acetone, alcohol, etc., air drying, pickling in a 5% solution of sulfuric acid at a temperature of 80-90°, coppering in a sulfuric acid electrolyte, washing in cold run ing water, drying at a

Card 1/2

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ACCESSION NR: AR4014554

temperature of 150-200°, heat treatment at a temperature of 700-800°C for 5-10 minutes.

DATE ACQ: 09Jan64 SUB CODE: ML ENCL: 00

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MARCHENKO, N.A.; RAYBER, Z.S.; LIPKO, S.K.; OS'MAKOVA, V.T.; KRYMER, S.Ye.; LOMEKHOV, A.S.; STREL'NIKOVA, N.P.; KORCHEMNAYA, Ye.K.; NAUMOVA, V.I.

Exchange of experience. Zav.lab. 28 no.10:1192-1193 '62. (MIRA 15:10)

1. Khar'kovskiy politekhnicheskiy institut imeni Lenina (for Marchenko, Rayber, Lipko). 2. Severnyy nikel'nyy kombinat (for Krymer, Lomekhov). 3. Noril'skiy gorno-metallurgicheskiy kombinat imeni A.P. Zavenyagina (for Strel'nikova). 4. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo (for Korchemnaya, Naumova).

(Chemistry, Analytical)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MARCHENKO, N.A.; GLADKIY, I.N.; RAYBER, Z.S.

Adhesion of galvanic coatings to an electronegative base. Zhur.prikl. khim. 35 no.11:2445-2449 N '62. (MIRA 15:12)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina.
(Protective coatings) (Electroplating) (Adhesion)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MARCHENKO, N.A., kand. tekhn. nauk; KAYDER, Z.S., inzh.; KAZATSKAYA, Ye.N., inzh.; ZHUKOVA, V.I., red.; FOMICHEV, A.G., red.izd-va; BOL'SHAKOV, V.A., tekhn. red.

[Applying copper coatings from an ammonia electrolyte]Nanesenie mednogo pokrytiia iz ammiachnogo elektrolita. Leningrad, 1961. 21 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Zashchitnye pokrytiia, no.13) (MIRA 15:10)

(Copper plating)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBININ, A.A.; KONOVALOVA, N.Ye.

Some syntheses based on glycyrrhetinic acid. Zhur.ob.khim. 32 no.2:644-646 F '62. (MIRA 15:2)

1. Leningradskiy gosudarstvennyy universitet.
(Glycyrrhetinic acid)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBMAN, N.S. (Moskva); TEREKHIN, A.T. (Moskva)

Dispersion methods of random functions and the application to the study of nonlinear control objects. Avtom. i telem. 26 no.3:500-509 Mr '65. (MIRA 18:6)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYEMAN, N. S., DEGTYAREV, I. L.

Machinery - Trade and Manufacture

Analysis and control of the process in the automatic and cold-upsetting shops.
Vest. mash. 31 no 12, 1951.

Monthly List of Russian Accessions, Library of Congress. September 1952. Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBMAN, N.S., dotsent, kandidat tekhnicheskikh nauk; KOTEL'NIKOV, B.P., inzhener.

Precision characteristics and statistical methods of control in an electroplating shop. Vest.mash.34 no.4:85-89 Ap '54. (MLRA 7:5)
(Electroplating) (Production control)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBMAN, N.S.

report submitted at the Soviet Conference on Problems in the Application of Mathematical Methods in Economic Research, Leningrad, 16-21 January 1961.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

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RAYBMAN, N.S.

PHASE I BOOK EXPLOITATION SOV/5856

Leonov, Yuriy Petrovich, Sergey Yakovlevich Rayevskiy, and Naum Samoylovich Raybman

Pomoshchnik avtomatiki; statisticheskaya dinamika v avtomatike (Aid in Automation; Statistical Dynamics in Automation) Moscow, Izd-vo AN SSSR, 1961. 116 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya). 8000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR.

Ed. of Publishing House: Ye. I. Levit; Tech. Ed.: O. M. Gus'kova.

PURPOSE : This book is intended for students, engineers, technicians, and those interested in the application of statistical methods to automatic control.

COVERAGE: Fundamental concepts of probability and information theory and examples of their application in science and technology are presented. Control systems which are optimal in a statistical

Card 1/3

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sense are discussed, along with the construction of mathematical analogs for relationships between various quantities. Ways of using statistical methods for the investigation of control systems are indicated. The application of statistical methods for analyzing and evaluating the accuracy of individual automated processes is described. No personalities are mentioned. There are 12 references, all Soviet (including 2 translations).

TABLE OF CONTENTS:

From the Authors 3

Probability and Information -- Their Role in Science and Technology 5

Optimum Systems of Automatic Regulation and Control 19

On Statistical Description of Relationships 27

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

Art in Automation; Statistical (Cont.) SOV/5856

Statistical Methods in Automatic Control 42

Statistical Characteristics of Automatic Production Processes 58

Statistical Characteristics of Automatic Lines 90

Appendix 117

Bibliography 119

AVAILABLE: Library of Congress

Card 3/3

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

ABDRASHITOV, Rasim Mubarakshevich, kand. tekhn. nauk; GREBENNIKOV, Nikolay Ivanovich, inzh.; RAYBMAN, Naum Samoylovich, kand. tekhn. nauk; MIL'GRAM, Yu.G., doktor tekhn. nauk, retsenzent; YELISEYEV, M.S., red. izd-va; UVAROVA, A.F., tekhn. red.

[Precision analysis in the manufacture of calculating machines; mechanical units and devices of mechanical and electronic calculating machines] Tochnostnye raschety v schetnom mashinostroenii; mekhanicheskie uzly i ustroistva mekhanicheskikh i elektronnykh vychislitel'nykh mashin. Moskva, Mashgiz, 1961. 252 p. (MIRA 14:10)
(Calculating machines) (Electronic calculating machines)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

S/024/61/000/001/004/014
E197/E435

AUTHOR: Raybman, N.S. (Moscow)

TITLE: Correlation methods for the determination of approximate characteristics of automatic production lines

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1961, No.1, pp.110-123

TEXT: In a paper presented in 1959 at the Third All Union Conference on Automation of Production Processes, N.A.Borodachev formulated some of the problems of applying the theory of random processes for describing the relations governing the operation of automatic production lines. In this paper correlation methods for the determination of approximate characteristics of automatic production lines are considered assuming a linear dependence of the output upon the input for each of the production processes. Problems of the determination of the optimum accuracy for each of the constituent operations of the automatic line are also considered. Accuracy in the production of components, sub-assemblies and finished assemblies is among the main factors

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Correlation methods for ...

determining the productivity, quality, reliability and cost. The accuracy is considered in the light of statistical analysis. Hitherto, accuracy was mainly examined in relation to individual processes by establishing evaluations of the mathematical expectation, scatter and their variation in time. The effects of individual factors on regularities in the progress of a production process on automatic machines have been established in recent years. For automatic production lines, it is necessary to establish also the features of inter-action between the several processes. Correlation analysis has recently been applied to simple production chains. The theory of random functions and its applications in automatic control systems is a promising approach to the evaluation of the transfer characteristics of automatic production lines. In a line consisting of a single process, the input and output qualities are each described by the mathematical expectation, the scatter and the distribution law of a quality parameter. When the relation between input and output is linear and the density of distribution is normal at the input, it is also normal at the output. Correlation analysis is used to derive approximate relations between input and output. A so-called

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S/024/61/000/001/004/014
E197/E435

Correlation methods for ...

"regression coefficient" is defined which characterizes the transfer of an input error to the output. When this coefficient is zero (namely when the correlation coefficient between input and output is zero) the input errors are fully corrected in the given operation. When the regression coefficient is unity, the operation leaves the input error untouched. On the other hand, the errors which are caused by the process itself are defined by two other coefficients of which one is the systematic error and can be adjusted either by the initial dimensions of the tool (form cutting, blanking, pressure die casting, hot and cold stamping or extrusion) or by re-setting (turning, milling, grinding and others). The second coefficient defines the random errors of the process. Both coefficients can be determined from measurements of the components produced. These relations between input and output are applied first to two operations in series and then to an arbitrary number. The values of the "regression coefficient" are the transfer characteristics for the links in the system. In inertialess systems without lag, these coefficients are evaluations of the operator by which the input is transformed into the output. The effect of a time lag is

Card 3/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

Correlation methods for ...

discussed. It is shown how cases of nonlinear relationship between input and output can be treated. The problem of designing an automatic production line for minimum cost is discussed. An example is given , chosen from one of the automatic production lines of roller bearings in the I-yy Gosudarstvennyy podshipnikovyy zavod (First National Bearing Factory in Moscow) where the measurements were carried out. The results were utilized of about 200 measurements carried out in the Laboratoriya tochnosti (Accuracy Laboratory) IMASh AS USSR. Acknowledgments are expressed to V.S.Pugachev and Ya.I.Lukomskiy for their advice. There are 3 figures, 2 tables and 8 Soviet references.

SUBMITTED: September 20, 1960

Card 4/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

31265
S/103/61/022/011/005/014
D201/D306

16,4000 (1329, 1344, 1031)

AUTHORS: Rayevskiy, S. Ya., and Raybman, N. S. (Moscow)

TITLE: Applying statistical dynamics methods to designing characteristics of some automation objects

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 11, 1961, 1466-1474

TEXT: In the present article the authors consider the general problems of the theory of determining characteristics of the object to be controlled. This theory is then explicitly considered as applied to a certain class of technological processes and finally applied for determining one of the characteristics of automatic bearing production lines. Let the input to the controlled object be a certain random process X(t) resulting in a random process Y(t) at the output. X(t) and Y(t) can be measured, the results of their measurements determining the object characteristic, which is defined as a certain operator. Hence

Card 1/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

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Applying statistical dynamics ...

$$A_t X(\varsigma) = Y(t) \qquad (1.1)$$

where A_t is the object operator, the subscript t indicating that the operator depends on the variable t. Since no data are assumed known about the operator, it is assumed to be random and hence it is enough to determine its sample value A_t^* . The sample operator determines the operator A_t if its value is near to the real valu of the operator itself, this value being determined from a certain criterium, which condition is equivalent to the requirement that a random function

$$Y^*(t) = A_t^* X(s) \qquad (1.2)$$

be nearly equal to the random function Y(t). Such problems are solved in statistical dynamics by V. S. Pugachev (Ref. 1: Teoriya

Card 2/ 7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

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sluchaynykh funktsiy i yeye primeniye k zadacham avtomaticheskogo upravleniya (Theory of Random Functions and its Application to the Problems of Automatic Control), Fizmatgiz, 1960) by the construction, according to the chosen criterium, of a certain function $\rho[Y(t), Y^*(t)]$ depending on $Y(t)$ and $Y^*(t)$, the mathematical expectation of which is made minimum, i.e.

$$M\rho[Y(t), Y^*(t)] = \min \qquad (1.3)$$

A typical object in practice is a technological chain of consecutive operations in machine engineering, instrument production, merallurgy etc. or an automatic production line. Let such a chain have n series connected units, having a certain random factor $X_0(t)$ affecting the input of the first unit. $X_0(t)$ will result in a factor $X_1(t)$ at the input of the second unit, $X_1(t)$ will result in an $X_2(t)$ at the input of the third unit etc. Hence

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Applying statistical dynamics ...

$$D\left[X_n(t)\right] = D\left[A^*_{tk}X_{k-1}(s)\right] + D\left[\varepsilon_k(t)\right] \quad (k=1,2,\ldots,n-1,n) \tag{2.2}$$

may be obtained from which

$$\sigma_n^2 = \sum_{k=1}^{n} D_k\left[X_n(t)\right] = \sum_{k=1}^{n} D\left[A^*_{tk}X_{k-1}(s)\right] + \sum_{k=1}^{n} D\left[\varepsilon_k(t)\right] \tag{2.3}$$

The first sum in the R.H.S. of (2.3) takes into account the effect of errors at inputs $X_k(t)$ on the output parameter $X_n(t)$ and the second sum - the total effect of random disturbances within the chain itself. The evaluation of these two sums is made under the following assumptions, often met in practice: 1) All errors $X_k(t)$ $(k = 1,2,\ldots,n-1,n)$ are delta-correlated, i.e.

$$K^m_{xx}(t_1,t_2) = \sigma^2_m\delta(t_1 - t_2) \tag{2.4}$$

Card 4/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

Applying statistical dynamics ...

2) all units in the chain are linear, i.e.

$$A_{tm}X_m(s) = \int_0^T W_m(t,s)\, X_m(s)ds \qquad (2.5)$$

Hence, for constant coefficients of mutual correlation

$$D_1 = \sum_{k=1}^{n} \frac{1}{\sigma^2_{k-1}} \left[K_{xy}^{(k-1)}\right]^2 \qquad (2.9)$$

and

$$D(\varepsilon_n) = D_k\left[X_n(s)\right] \cdot \sigma_n^2 \left[r_{xy}^{(k-1)}\right]^2 . \qquad (2.10)$$

Application of the above method makes it possible to determine the

Card 5/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

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Applying statistical dynamics ....

value of D_{1n} at the output of an automatic production line from the values of D_{1k} of every one of the constituent processes at the line:

$$D_{in} = \sum_{i=1}^{n} A^{*}_{tk} K X_k X_n \qquad (2.13)$$

where A^{*}_{tk} - the sample values of the operators of each of the processes. As an example the authors consider determination of the characteristics of the automatic production line of the first State Bearing Manufacturing Factory in finishing the outer ring of roller bearing type 7815K1. The production line characteristics were determined from the results of measurements carried out by the Laboratory of the Institute of the Science of Machines ИМАШ of the AS USSR and all data presented by M. I. Kochenov and V. I. Sergeyev.

Card 6/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

31265
S/103/61/022/011/005/014
D201/D306

Applying statistical dynamics ...

There are 6 figures, 2 tables and 7 Soviet-bloc references.

SUBMITTED: January 20, 1961

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Card 7/7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RAYBMAN, N.S.

Transactions of the Sixth Conference (Cont.) SOV/6371

47. Rayevskiy, S. Ya. Analogue of A. Ya. Khinchin's Theorem on the Spectral Representation of the Correlation Function for Nonstationary Random Processes 239

48. Raybman, N. S. Correlation Methods for Determining the Approximate Characteristics of Automatic Lines 245

49. Sveshnikov, A. A. Probability Methods for Investigating the Swell of the Sea and the Rolling of a Ship 251

50. Tempel'man, A. A. Ergodic Properties of Homogeneous Random Fields Over Groups 253

51. Timofeyev, D. V., and A. S. Frolov. Application of a Method for Statistical Tests to the Calculation of Certain Regimes of Electric Systems 257

Transactions of the 6th Conf. on Probability Theory and Mathematical Statistics and of the Symposium on Distributions in Infinite-Dimensional Spaces held in Vil'nyus, 5-10 Sep '60. Vil'nyus Gospolitizdat Lit SSR, 1962. 493 p. 2500 copies printed

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014443

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

S/024/62/000/002/004/012
E140/E155

AUTHOR: Raybman, N.S. (Moscow)

TITLE: Correlation methods of determining the approximate characteristics of multidimensional processes in automatic production lines

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika, no.2, 1962, 72-91

TEXT: The article considers correlation methods of determining characteristics of multi-input-output processes taking the microstructure into account. The processes are assumed to be linear and the error is delta-correlated. Among the factors which may be treated by the method are cutter wear on automatic lathes, wear of dies and punches in cold stamping operations, grinders, rolls, etc., variations of temperature in heat treatment, etc. By linear transformations the regression equation is obtained. The analysis proceeds from the simple case, of assuming a single external factor to be predominant,

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